

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081319\  
 Data File : VD063528.D  
 Acq On : 13 Aug 2019 15:42  
 Operator : JC/SY  
 Sample : K4295-02  
 Misc : 5.21g/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 14 08:28:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 Response via : Initial Calibration

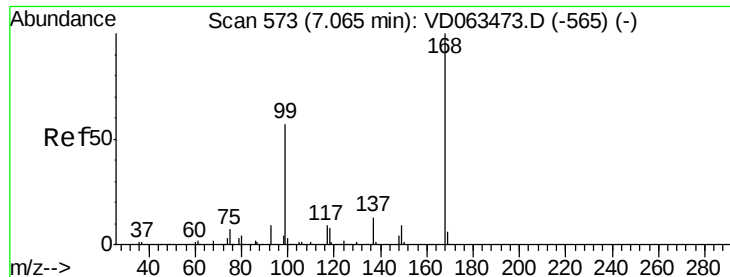
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 1105469  | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 1512843  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 1309880  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 642232   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 7.46   | 65  | 465056   | 39.36 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 78.72% |      |
| 35) Dibromofluoromethane    | 6.93   | 113 | 549730   | 43.15 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.30% |      |
| 50) Toluene-d8              | 10.42  | 98  | 1065707  | 38.04 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 76.08% |      |
| 62) 4-Bromofluorobenzene    | 13.56  | 95  | 467296   | 36.81 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 73.62% |      |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 3.23  | 43   | 5113     | 2.129   | ug/l # | 65     |
| 20) Methylene Chloride         | 3.82  | 84   | 20458    | 1.970   | ug/l   | 93     |
| 31) Cyclohexane                | 7.05  | 56   | 21435    | 2.009   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 87634    | 6.553   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.06  | 117  | 108702   | 5.393   | ug/l # | 17     |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 213608   | 107.826 | ug/l # | 1      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1

Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.05 min Scan# 571  
 Delta R.T. -0.01 min  
 Lab File: VD063528.D  
 Acq: 13 Aug 2019 15:42

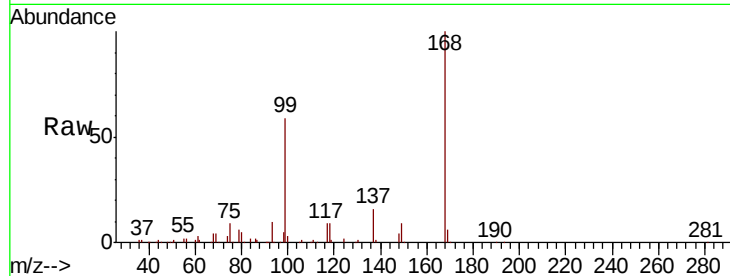
Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:168 Resp: 1105469

Ion Ratio Lower Upper

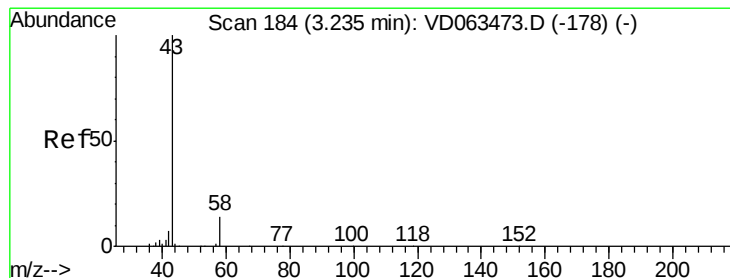
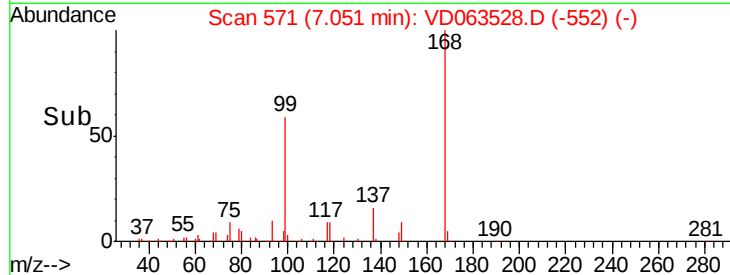
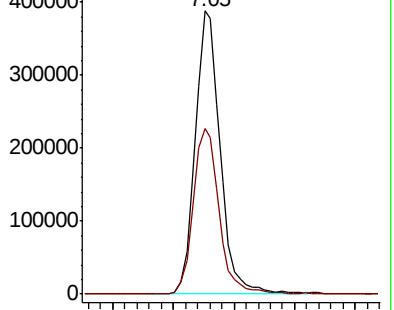
168 100

99 58.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

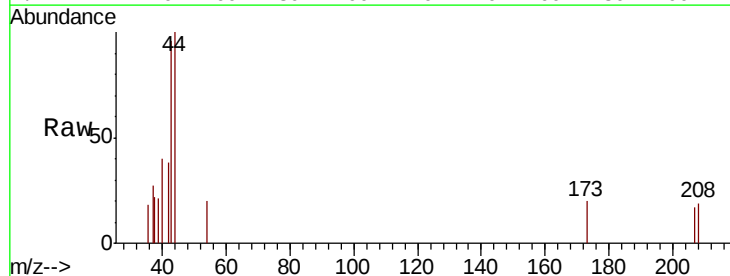
Acetone  
 Concen: 2.129 ug/l  
 RT: 3.23 min Scan# 183  
 Delta R.T. -0.00 min  
 Lab File: VD063528.D  
 Acq: 13 Aug 2019 15:42

Tgt Ion: 43 Resp: 5113

Ion Ratio Lower Upper

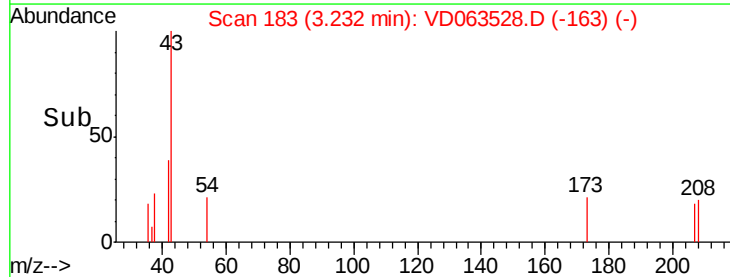
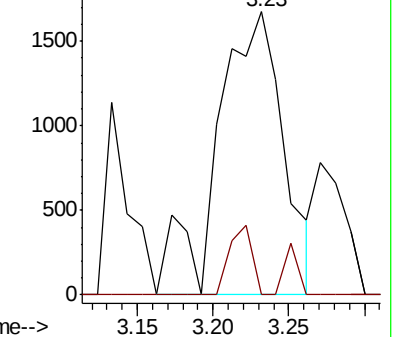
43 100

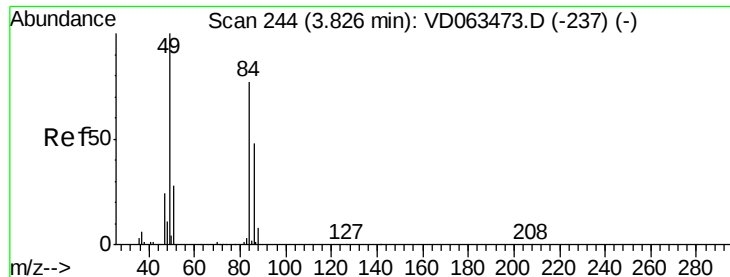
58 0.0 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

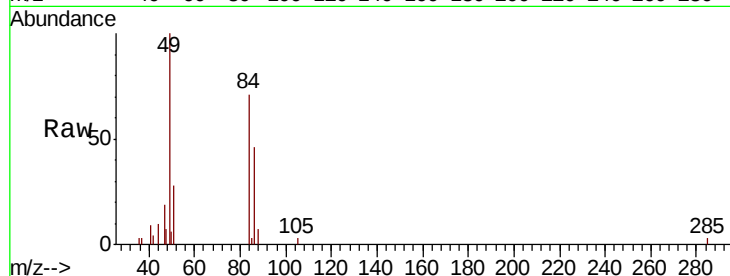




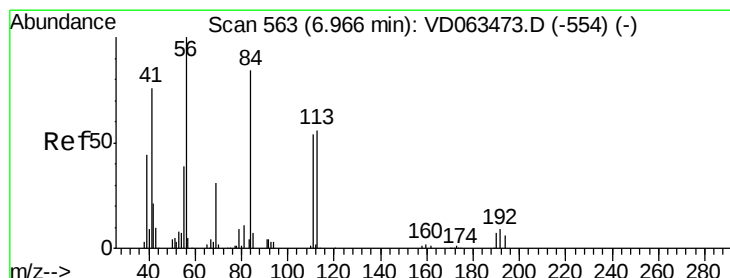
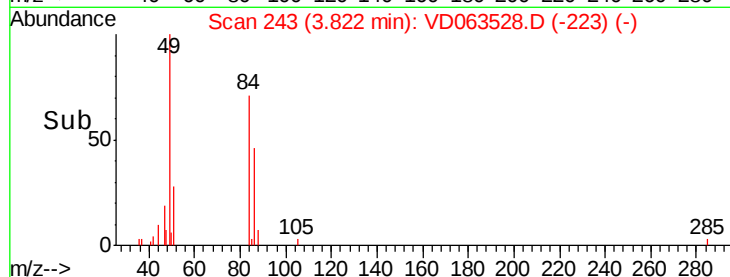
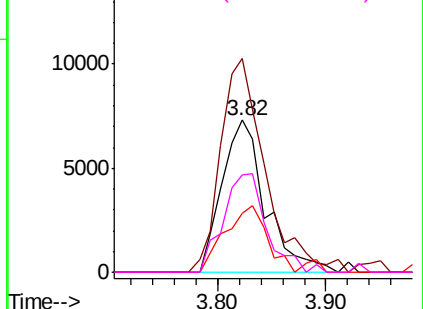
#20  
Methvlene Chloride  
Concen: 1.970 ug/l  
RT: 3.82 min Scan# 243  
Delta R.T. -0.00 min  
Lab File: VD063528.D  
Acq: 13 Aug 2019 15:42

Instrument :  
MSVOA\_D  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 20458 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 140.7 | 103.4 | 155.2 |
| 51       | 39.2  | 28.5  | 42.7  |
| 86       | 64.1  | 49.4  | 74.2  |

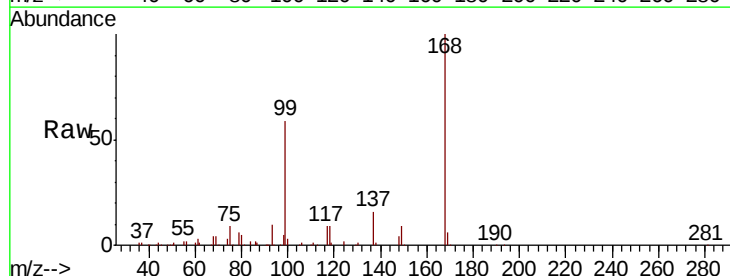


Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

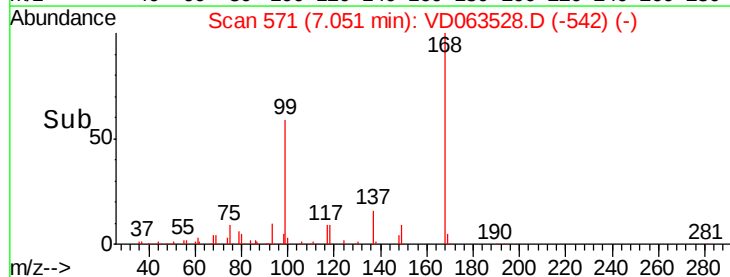
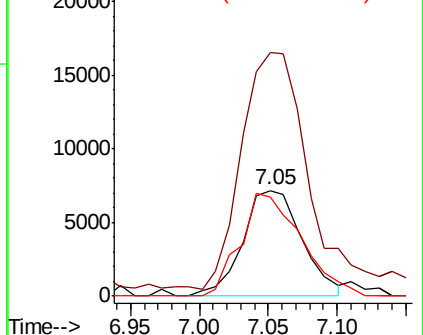


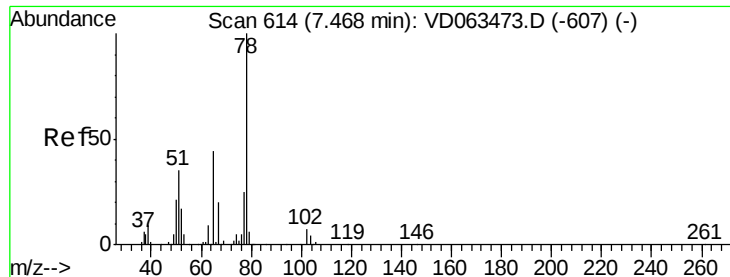
#31  
Cyclohexane  
Concen: 2.009 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. 0.08 min  
Lab File: VD063528.D  
Acq: 13 Aug 2019 15:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 21435 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 229.8 | 25.0  | 37.6# |
| 84       | 93.9  | 69.7  | 104.5 |



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 39.356 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

Instrument :

MSVOA\_D

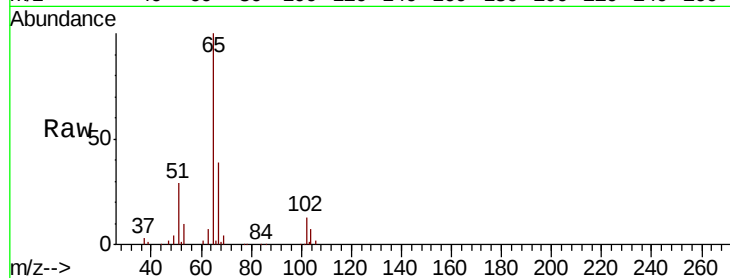
ClientSampleId :

Tot Ion: 65 Resp: 465056

Ion Ratio Lower Upper

65 100

67 38.8 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

200000

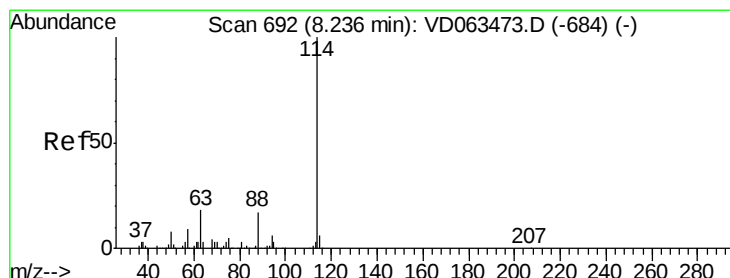
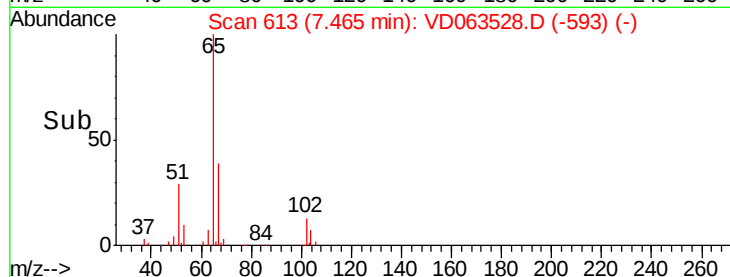
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. -0.00 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

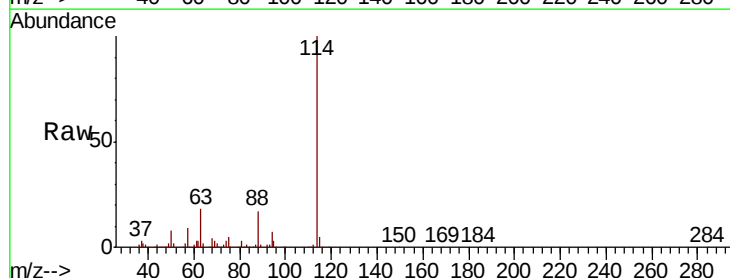
Tgt Ion: 114 Resp: 1512843

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.2

88 16.7 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.23

800000

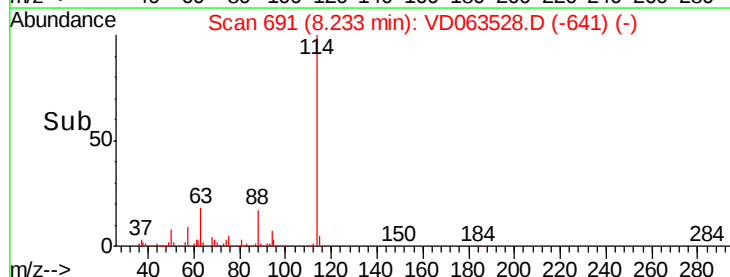
600000

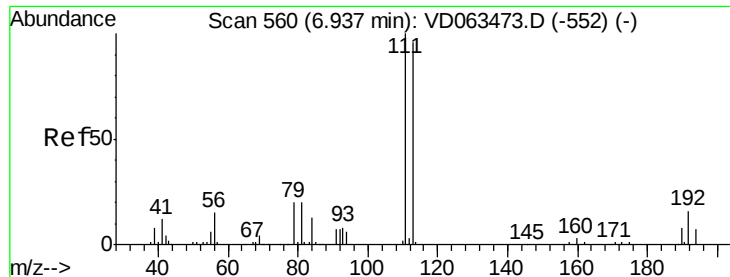
400000

200000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 43.146 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

Instrument :  
MSVOA\_D  
ClientSampled :

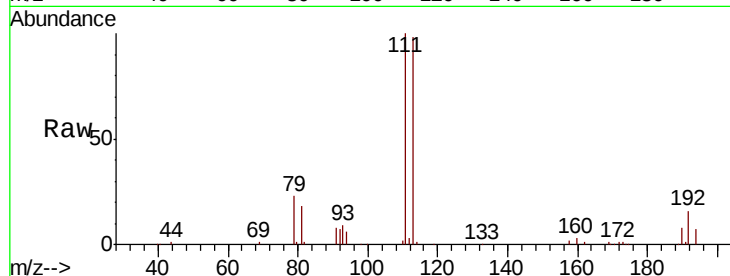
Tot Ion:113 Resp: 549730

Ion Ratio Lower Upper

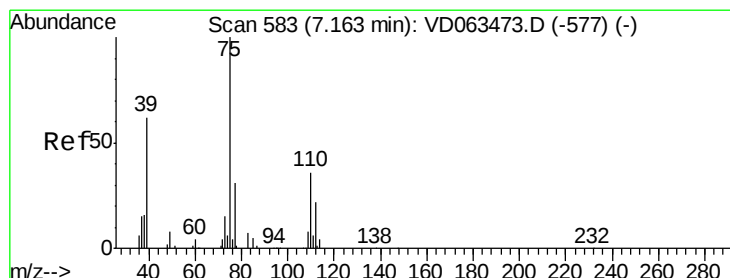
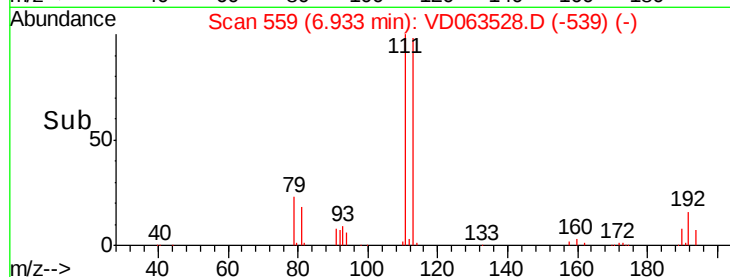
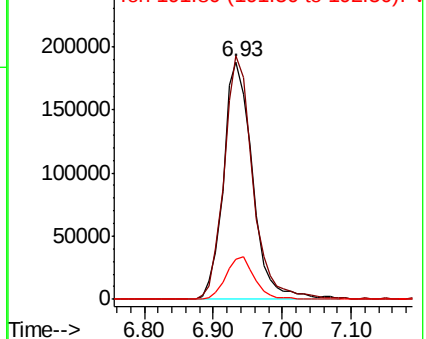
113 100

111 102.6 83.1 124.7

192 16.8 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 6.553 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.11 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

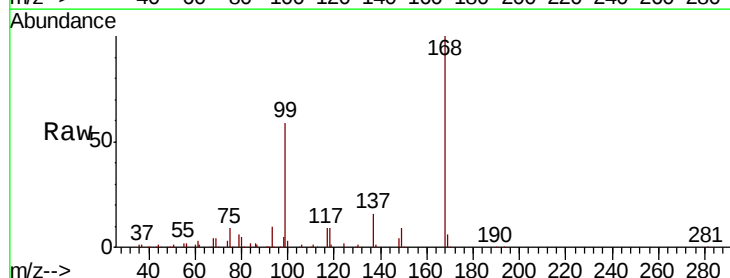
Tgt Ion: 75 Resp: 87634

Ion Ratio Lower Upper

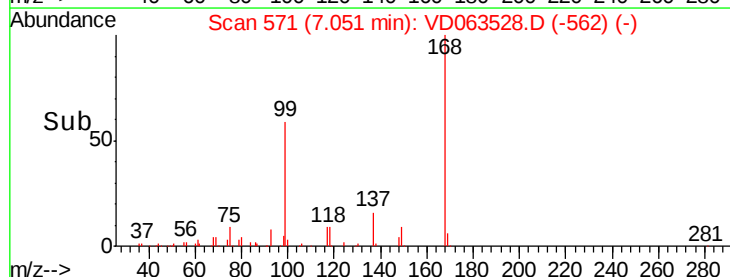
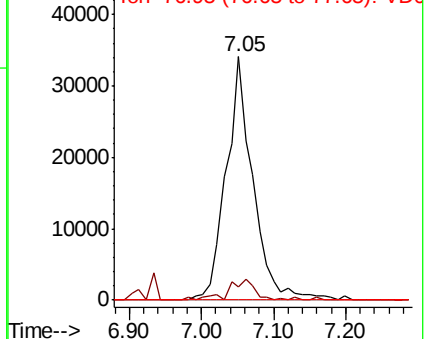
75 100

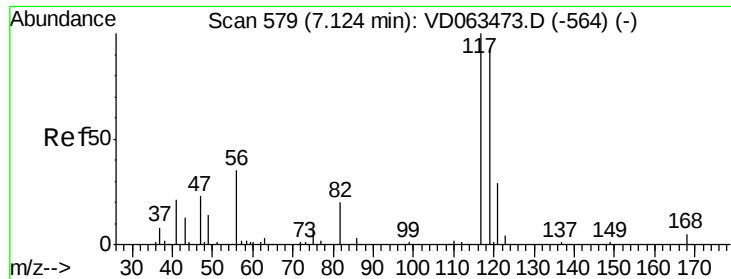
110 5.2 17.6 52.8#

77 0.0 24.3 36.5#



Abundance Ion 75.00 (74.70 to 75.70): V  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.393 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

Instrument :

MSVOA\_D

ClientSampled :

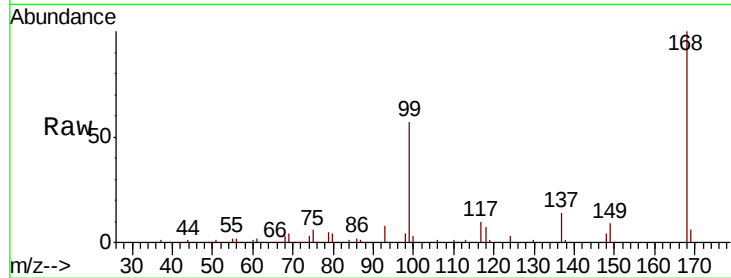
Tot Ion:117 Resp: 108702

Ion Ratio Lower Upper

117 100

119 5.0 74.2 111.2#

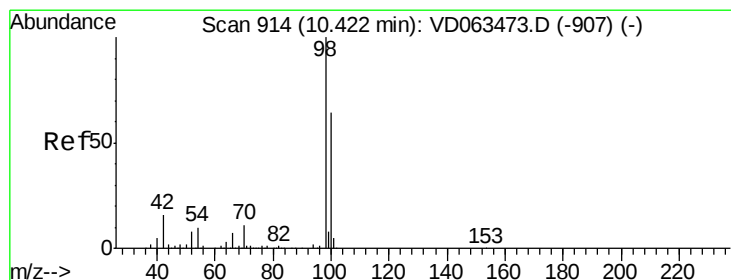
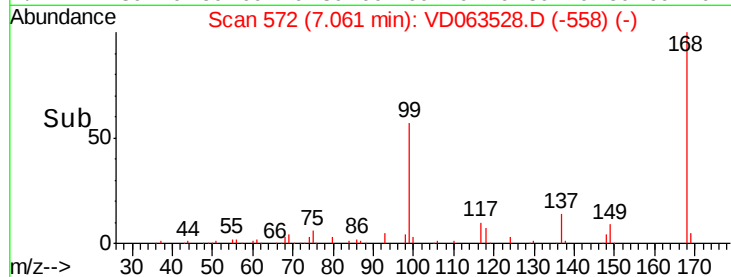
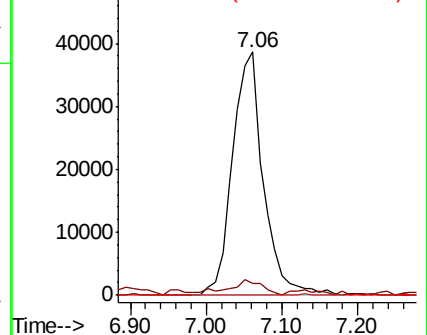
121 0.0 23.1 34.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: 38.044 ug/l

RT: 10.42 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD063528.D

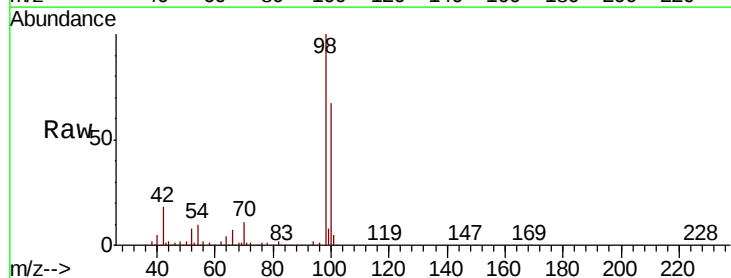
Acq: 13 Aug 2019 15:42

Tgt Ion: 98 Resp: 1065707

Ion Ratio Lower Upper

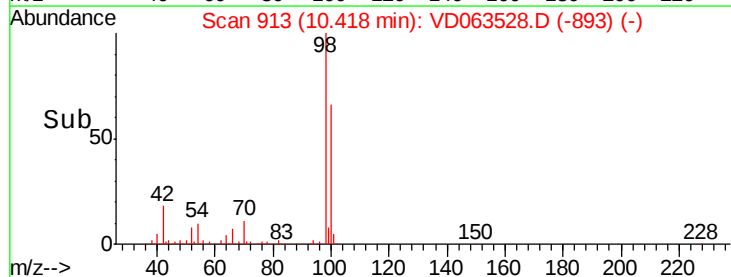
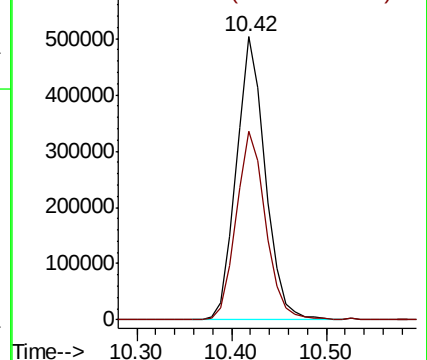
98 100

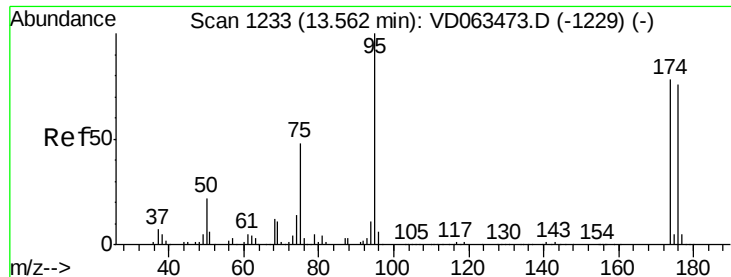
100 66.6 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 36.806 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

Instrument :

MSVOA\_D

ClientSampleId :

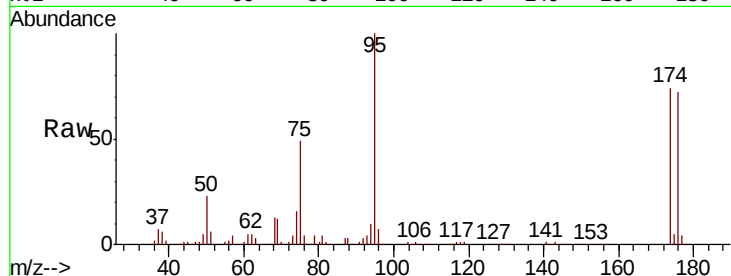
Tot Ion: 95 Resp: 467296

Ion Ratio Lower Upper

95 100

174 74.3 0.0 155.4

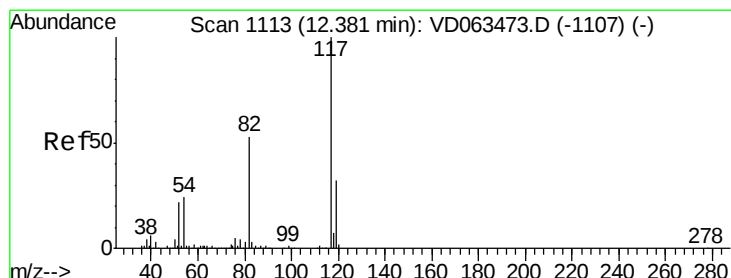
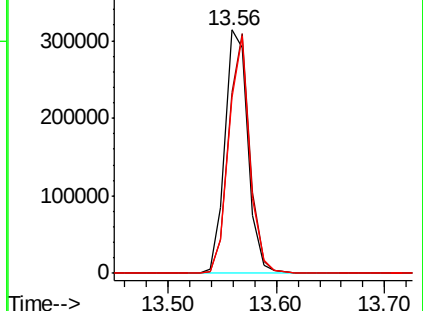
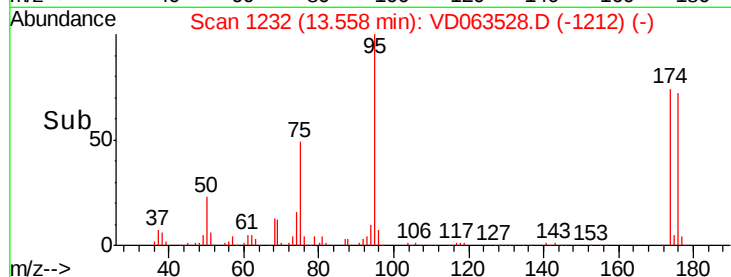
176 72.0 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

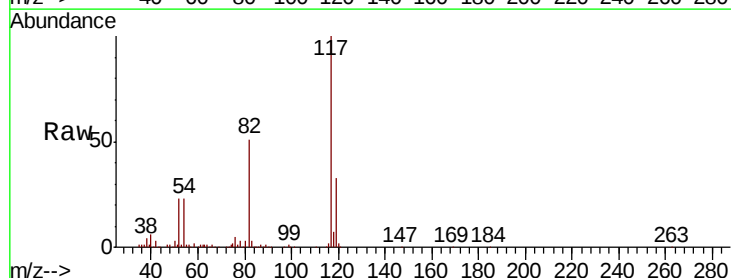
Tgt Ion: 117 Resp: 1309880

Ion Ratio Lower Upper

117 100

82 51.3 42.0 63.0

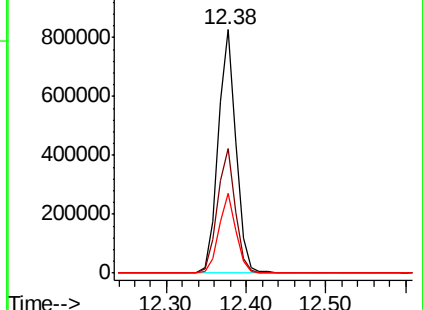
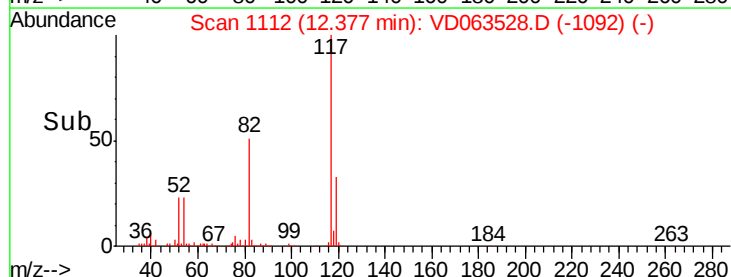
119 32.7 25.4 38.0

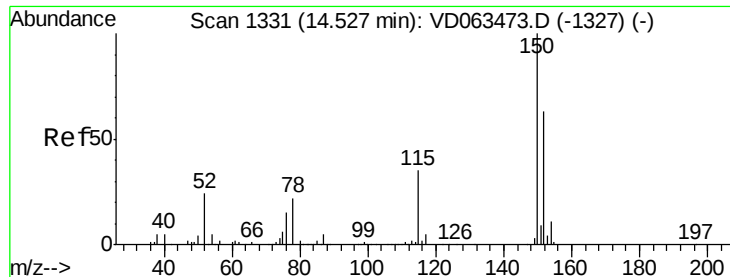


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

Instrument :

MSVOA\_D

ClientSampleId :

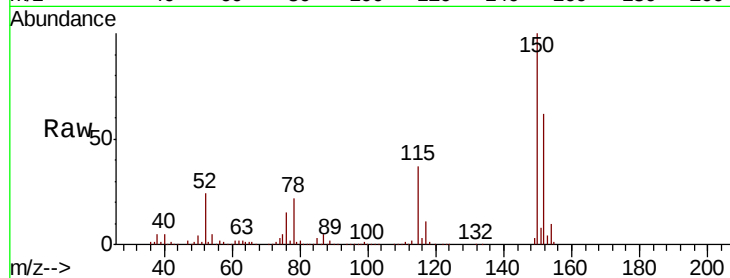
Tot Ion:152 Resp: 642232

Ion Ratio Lower Upper

152 100

115 59.3 30.9 92.7

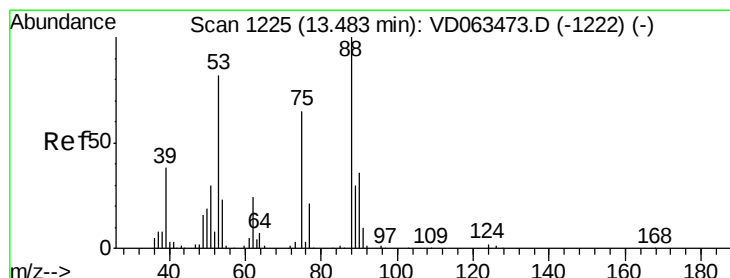
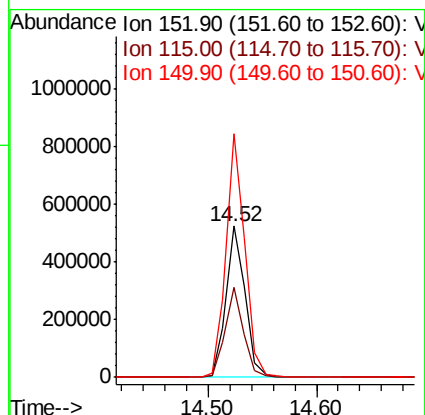
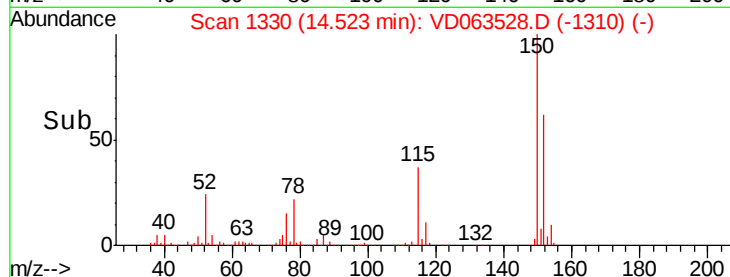
150 160.9 0.0 318.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 107.826 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063528.D

Acq: 13 Aug 2019 15:42

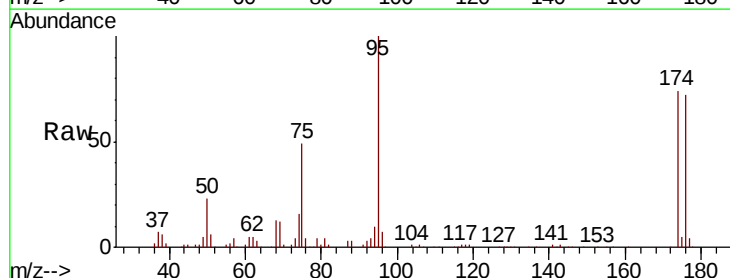
Tgt Ion: 75 Resp: 213608

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

